

EIM Help – Adjusted Time Series Data

Version 1.0

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Overview

Time series environmental monitoring data is generated by automated field instruments that capture successive measurements over specific time intervals. These instruments include groundwater level transducers, thermistors, and water quality sondes. For general information on time series data, see our [Time Series Submittal Guidelines](#) (in ZIP file).

Raw time series data sometimes require post-deployment adjustment by the user before the data can be used. Examples include:

- Adjusting water level transducer measurements for linear instrument drift using manual water level measurements.
- Adjusting dissolved oxygen (DO) measurements from a multiparameter water quality sonde for drift using Winkler titration samples.

This document applies only to time series measurements collected in the field. Do not adjust sample data from a lab.

How to Denote Adjusted Time Series Data in EIM

- Use one of the Result Data Qualifiers listed below and enter a descriptive comment.

Result Data Qualifier (Column S in Time Series Result Template)	Result Data Qualifier Description	Comment (Example) (Column U in Time Series Result Template)
IA	Instrument result adjusted; reported result meets study objectives	Result Value adjusted for linear instrument drift identified post deployment.
IAE	Instrument result adjusted; reported result is an estimate	Result Value adjusted; considerable instrument drift during deployment, reported result is an estimate and should be used with caution.

- Enter all manual measurements or samples used to adjust your time series data into EIM. Use the Results template for this, not the Time Series template. For example, if you adjusted your time series DO measurements using Winkler titration, enter the Winkler sample data into EIM. Do not use the IA or IAE result data qualifiers for your Winkler data.
- List the method of adjustment in your report. (The report gets linked to the EIM data).

Special Case

Groundwater Level Transducer Measurements

For adjusted data, upload your corresponding manual groundwater level measurements to EIM via the Result or the Water Level templates. Ecology staff can also use the Data Editor to do this.

If you adjusted your transducer data AND another factor affected your measurements, that factor supersedes using IA or IAE in the Result Data Qualifier field (Column S). For example, use “WLS” to indicate influence from a nearby pumping well. For these records, put the IA or IAE qualifier in the Comment field (Column U) along with a comment.

Our upcoming help document for entering groundwater level data will have more information.

Revision History

Revision Date	Revision No.	Summary of Changes	Reviser(s)
7/2/15	1.0	Original Document	KC, CN